

DR274

Direct replacement encoder for the Microcut Controller for Perfecta Printing Presses



Features:

- High precision 38.1mm incremental encoder
- Stainless steel 3/8" shaft
- Quadrature A & B with reference channels
- 500 PPR
- Line Driver output
- 114mm of cable with RJ45 phone jack
- 3 hole servo mount 120° apart

For many years, Encoder Products Company supplied an encoder to Goldengate Microsystems for their "Microcut" Controller, often used as backstop gauges in the printing and binding industry. Perfecta USA manufactures printing presses that use this Microcut Controller. With the RJ45 connector, replacement of this encoder is usually as simple as just plugging it in.

Connector Options :-

Encoders produced for Goldengate Microsystems included both male and female connectors. Because DR274 is offered with either a male or female connector, be sure to select the proper connector to match your application.



The Accu-Coder™ Advantage

- Get this encoder **FAST!**
- **Huge savings** in price!
- The accuracy, reliability, and quality that only come from an Accu-Coder™
- Industry Best **3-year** warranty!



DR274-01



DR274-02

Don't see the exact encoder you need?

Call +44(0)1978 262100 and our Technical Sales Department will cross-reference your encoder to the correct BEPC model.

DR274

Direct replacement encoder for the Microcut Controller for Perfecta Printing Presses

DR274 Specifications

Electrical

Input Voltage.....4.75 to 28 VCC max for temperatures up to 70° C
 4.75 to 24 VCC for temperatures between 70° C to 100° C
 Input Current.....100 mA max with no output load
 Input Ripple100 mV peak-to-peak at 0 to 100 kHz
 Output FormatIncremental- Two square waves in quadrature with channel A leading B for clockwise shaft rotation, as viewed from the encoder mounting face. See *Waveform Diagrams* below.
 Output Types.....Line Driver- 20 mA max per channel (Meets RS 422 at 5 VCC supply)
 Freq Response.....Up to 1 MHz
 Noise Immunity.....Tested to BS EN61000-4-2; IEC801-3; BS EN61000-4-4; DDEVN 50141; DDEVN 50204; BS EN55022 (with European compliance option); BS EN61000-6-2; BS EN50081-2
 Symmetry180° (±18°) electrical at 100 kHz output
 Quad Phasing.....90° (±22.5°) electrical at 100 kHz output
 Min Edge Sep.....67.5° electrical at 100 kHz output
 Rise Time.....Less than 1 microsecond
 Accuracy.....0.017° mechanical (1.0 arc minutes) from one cycle to any other cycle.

Mechanical

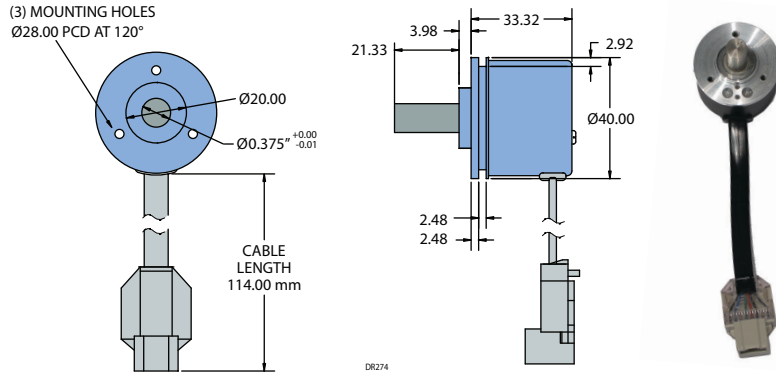
Max Shaft Speed.....7500 RPM. Higher shaft speeds may be achievable, contact Customer Service.
 Shaft Size0.375" Diameter
 Shaft Tolerance.....g6, Sliding fit for H7 host bore

 User Shaft Tolerances
 Radial Shaft Load2.25 Kg max
 Axial Shaft Load1.36 Kg max
 Starting Torque9.886 x 10⁻³ Nm typical
 2.824 x 10⁻² Nm typical for -40° C operation
 Max Acceleration.....1 x 10⁵ rad/sec²
 Electrical Conn2M cable (foil and braided shield, 24 SWG conductors) 5 Pin, 6 Pin or 8 Pin connectors available - see Appendix data sheet for connector cover options
 Housing.....Black non-corrosive finish
 Bearings.....Precision ABEC ball bearings
 Mounting.....3 x M3 on a 28mm PCD
 Weight.....100gm typical

Environmental

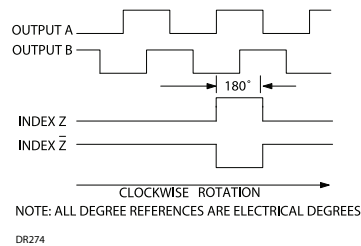
Operating Temp0° to 70° C for standard models
 -40 to 70° C for low temperature option
 0° to 100° C for high temperature option
 (0° to 85° C for certain resolutions, see PPR Options.)
 Storage Temp.....-25° to +85° C
 Humidity.....98% RH non-condensing
 Vibration.....10 g @ 58 to 500 Hz
 Shock.....50 g @ 11 ms duration
 Sealing.....IP50 standard

DR274 Dimensions



All dimensions are in mm with a tolerance of ±0.127mm or ±0.254 unless otherwise specified

Waveform Diagram



Wiring Table

Function	Pin
+VDC	1
A	4
B	6
Z	8
Z'	5
Not Used	3, 7
Ground	2

